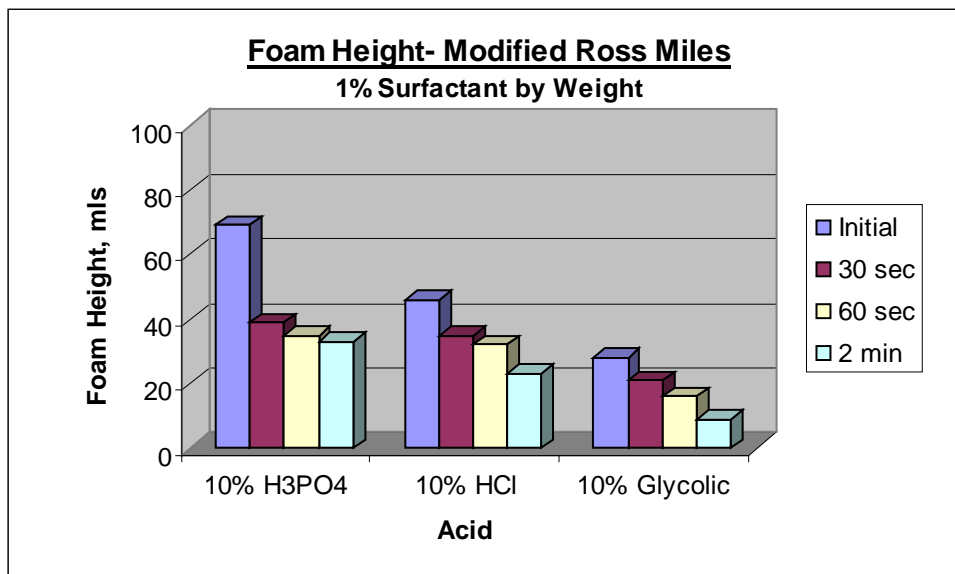
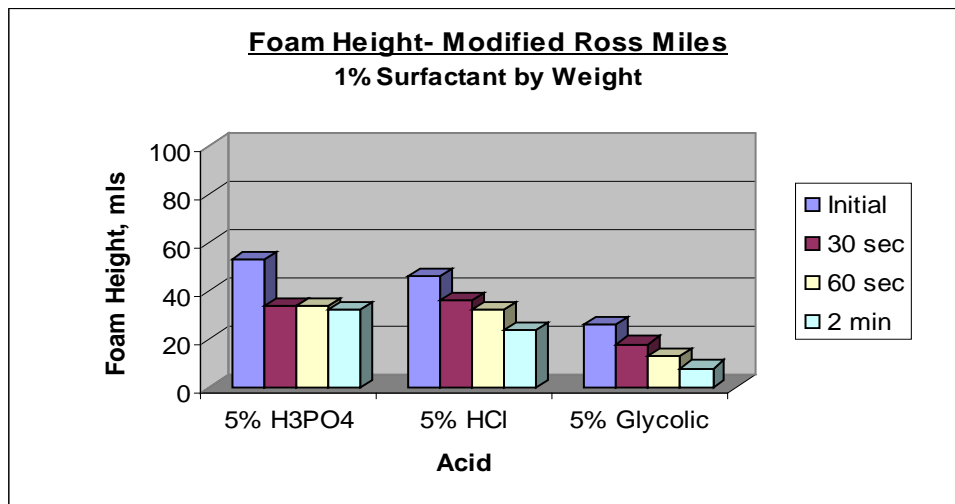


## DeTERGE LF-7315 in Acid Systems

DeTERGE LF-7315 exhibits excellent stability in a variety of organic and inorganic acids at 1% – 5% and is recommended for use as a low foaming surfactant in acid systems.

### FOAM HEIGHT DATA

The following charts illustrate the foam height in various acids determined via graduated cylinder shake test at ambient temperature. All solutions are clear liquids.



Continued

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**CLOUD POINT DATA**

The following table presents the cloud points of 1% DeTERGE LF-7315 by weight in various acids. All solutions are clear at ambient temperature.

Acid (% active)	Haze Point, °C	Cloud Point, °C
15% Phosphoric	~56	>100
15% Hydrochloric	~65	>100
15% Glycolic	>100	>100
15% Sulfuric	~50	>100
15% Nitric*	~52	>100
15% Acetic	>100	>100
30% Phosphoric	~45	>100
30% Hydrochloric	~65	>100
30% Glycolic	>100	>100
30% Sulfuric	~55	>100*
30% Nitric*	~55	>100
30% Acetic	>100	>100

\*develops a pink hue

**ACID STABILITY**

DeTERGE LF-7315 was added at 5% by weight to various acid solutions and stored at 25°C and 43°C for 90 days. The final appearance is noted in the table below.

Acid (% active)	25°C	43°C
15% Phosphoric	Clear	Clear
15% Hydrochloric	Clear	Clear
15% Glycolic	Clear	Clear
15% Sulfuric	Clear	Clear
15% Nitric*	Clear	Clear
15% Acetic	Clear	Clear
30% Phosphoric	Clear	Clear
30% Hydrochloric	Clear	Clear
30% Glycolic	Clear	Clear
30% Sulfuric	Clear	Clear
30% Nitric*	Clear	Clear*
30% Acetic	Clear	Clear

\* develops a pale brown hue

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